

ABSTRACT

An objective lens is used for an optical pickup device that conducts reproducing of information by using a light flux with wavelength λ_1 ($370 \text{ nm} \leq \lambda_1 \leq 440$) for the first optical disc having protective base board thickness t_1 ($0 \text{ mm} \leq t_1 \leq 0.2 \text{ mm}$) and the second optical disc having protective base board thickness t_2 ($t_1 < t_2$). On an optical surface of the objective lens, there is provided a first zone where transmitted light flux with wavelength λ_1 is used for reproducing of information for the first and second optical discs, and when a third optical disc having protective base board thickness T ($0.13 \text{ mm} \leq T \leq 0.25 \text{ mm}$) is assumed, it is possible to correct 3rd order spherical aberration value SA_3 generated when a light flux with wavelength λ_1 passing through the first zone after entering the objective lens in parallel is converged on an information recording surface of the optical disc.